

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Non-Chlorinated Brake Parts Cleaner SCAQMD Compliant
MSDS NO. 2416
Revision Date: 06/06/2002

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Non-Chlorinated Brake Parts Cleaner SCAQMD Compliant
Chemical Family: Non-Chlorinated Hydrocarbon
Synonyms: None
Emergency Telephone (24 hr.): 24-Hour Emergency Information: CHEMTREC (800) 424-9300
Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
Acetone 67-64-1	95-98	1000 ppm	750 ppm	500 ppm	750 ppm
Carbon Dioxide 124-38-9	2-7	5000 ppm (exposures <10,000 ppm to be cited de minimus)	Not Known	5000 ppm	30,000 ppm
Methyl Alcohol 67-56-1	2-4	200 ppm	Not Known	200 ppm	250 ppm

This product does not contain Normal Hexane (N-Hexane).

3. HAZARDS IDENTIFICATION

Emergency Overview: Warning: Extremely Flammable. Content under pressure. Ingestion of even small amounts of methanol can cause blindness and death. This material is an eye and skin irritant. Keep away from heat, sparks and flame. Gross inhalation overexposure may cause: Central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness or death. Causes respiratory irritation. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Ingestion: If swallowed, do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.
Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Skin Contact: Wash with soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Remove contaminated clothing and launder before reuse.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): -4 F (Lowest Component)
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): 2.5% (Lowest Component)
Flammable Limits in Air - Upper (%): 12.8% (Lowest Component)
Autoignition Temperature °F(°C): 475 F (Lowest Component)
Extinguishing Media: Dry chemical. Carbon dioxide. Alcohol foam. Use water spray to keep containers cool that are exposed to heat or flames.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire.

Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide. Fumes and Smoke.

Aerosol Comments: NFPA Level 2 Aerosol

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

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Spill Procedures: Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames. Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

7. HANDLING AND STORAGE

Handling and Storage: Caution: Contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cause bursting. DO NOT store in the passenger compartment of an automobile.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.
Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.
Skin Protection: Avoid skin contact. Wear protective clothing and gloves.
Respiratory Protection: Do not breath mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to pale yellow liquid	pH Value:	Not Determined
Odor:	SOLVENT	Vapor Density (Air=1):	2.0 Approximate
Vapor Pressure:	400 @ 760 mm Hg	Melting/Freezing Point:	Not determined.
Boiling Point (°F):	133 F (Lowest Component)	Bulk Density at 20°C:	Approx. 6.58 lb/gal (liquid)
Solubility in Water:	SOLUBLE	Evaporation Rate:	7.7 (BuAc=1)
Molecular Weight:	Mixture	Specific Gravity (H2O=1):	.79 @ 60 F (liquid)
Viscosity:	Not Determined.	Decomposition Temperature:	Not Determined
VOC Content(%):	Not determined.		

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
Conditions to Avoid: Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at temperatures above 120°f.
Materials to Avoid: Nitric acid. Sulfuric Acid. Strong acids. Contact with oxidizing agents. Chlorine compounds. Chloroform. Alkalis. Potassium t-butoxide. Strong bases.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Ingredient/CAS No.	wt. %	Route	Species	Dose
Acetone 67-64-1	95-98	Inhalation	Rats	LC50 50100 mg/m3/8H
Carbon Dioxide 124-38-9	2-7	NA	NA	Not known.
Methyl Alcohol 67-56-1	2-4	Inhalation	Rats	LC50 64,000 ppm

Carcinogenicity:

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
Acetone 67-64-1	95-98	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	2-7	Not Listed	Not Listed	Not Listed
Methyl Alcohol 67-56-1	2-4	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION**Waste Classification:** Residues and spilled material are hazardous waste due to ignitability.**Waste Management:** Not determined.

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION**U.S. DOT:**

Proper Shipping Name: ORM-D CONSUMER COMMODITY
Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:

Proper Shipping Name: Aerosols (Limited Quantity)
Hazard Class: 2.1
Hazard Subclass: Not determined.
UN No.: UN1950
Packing Group: PG II
Marine Pollutant: No

15. REGULATORY INFORMATION**US Federal Regulations:**

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
Acetone 67-64-1	95-98	Not Listed	Not Listed	NA	NA
Carbon Dioxide 124-38-9	2-7	Not Listed	Not Listed	NA	NA
Methyl Alcohol 67-56-1	2-4	Listed	Not Listed	NA	NA

Hazardous per OSHA 29 CFR 1910.1200

SARA 311/312 Hazard Categories: Not Determined.**State Regulations:**

Ingredient/CAS No.	wt. %	California Prop. 65 Cancer list	California Prop. 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Acetone 67-64-1	95-98	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	2-7	Not Listed	Not Listed	Not Listed	Not Listed
Methyl Alcohol 67-56-1	2-4	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA:

The components of this product are listed on the TSCA Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

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